PHOTOGRAPHIC INTERPRETATION REPORT

AIRFIELD AND ASSOCIATED FACILITIES SHUANG-CHENG-TZU MISSILE TEST CENTER CHINA

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JUNE 1967

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18 PAGES

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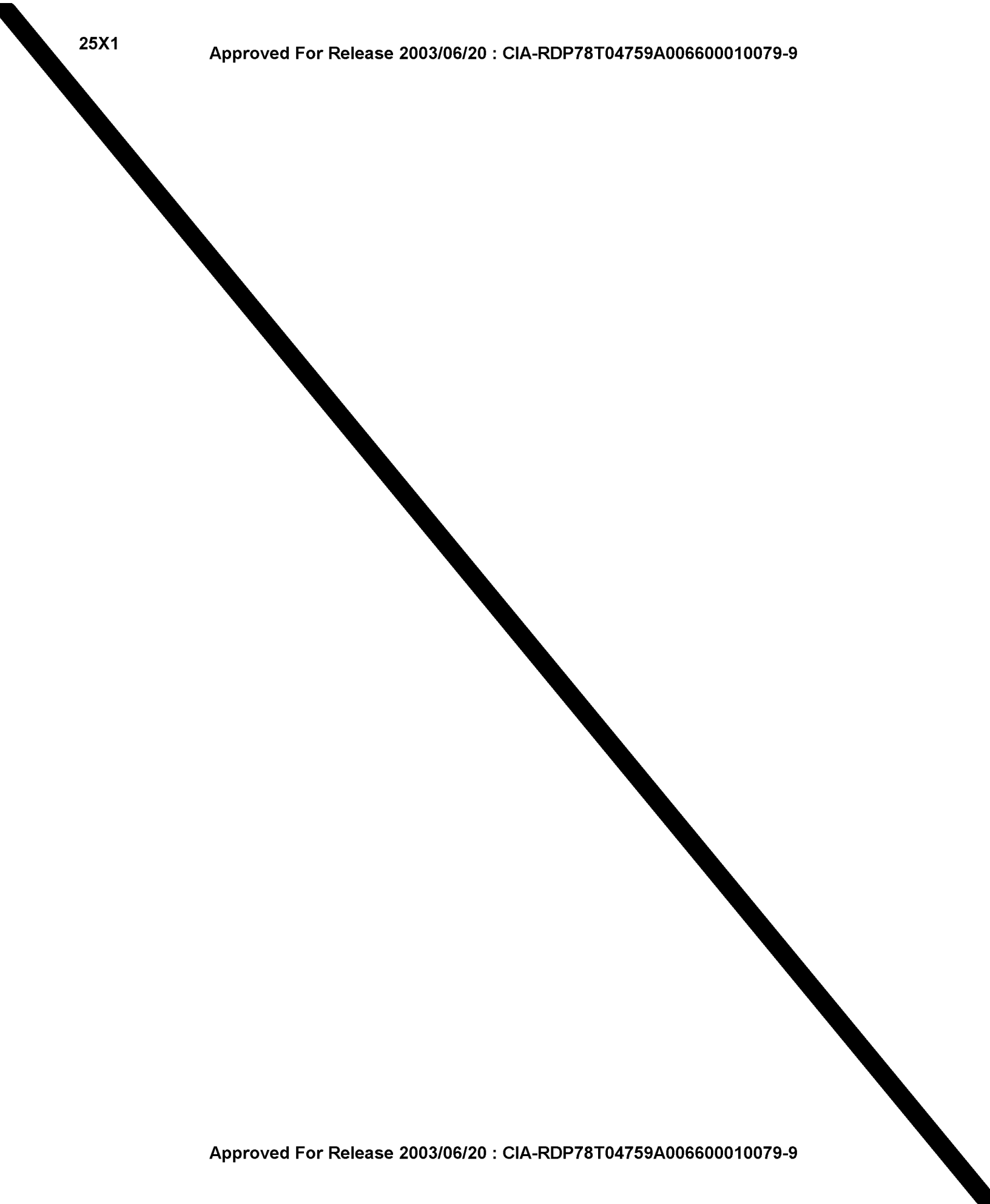

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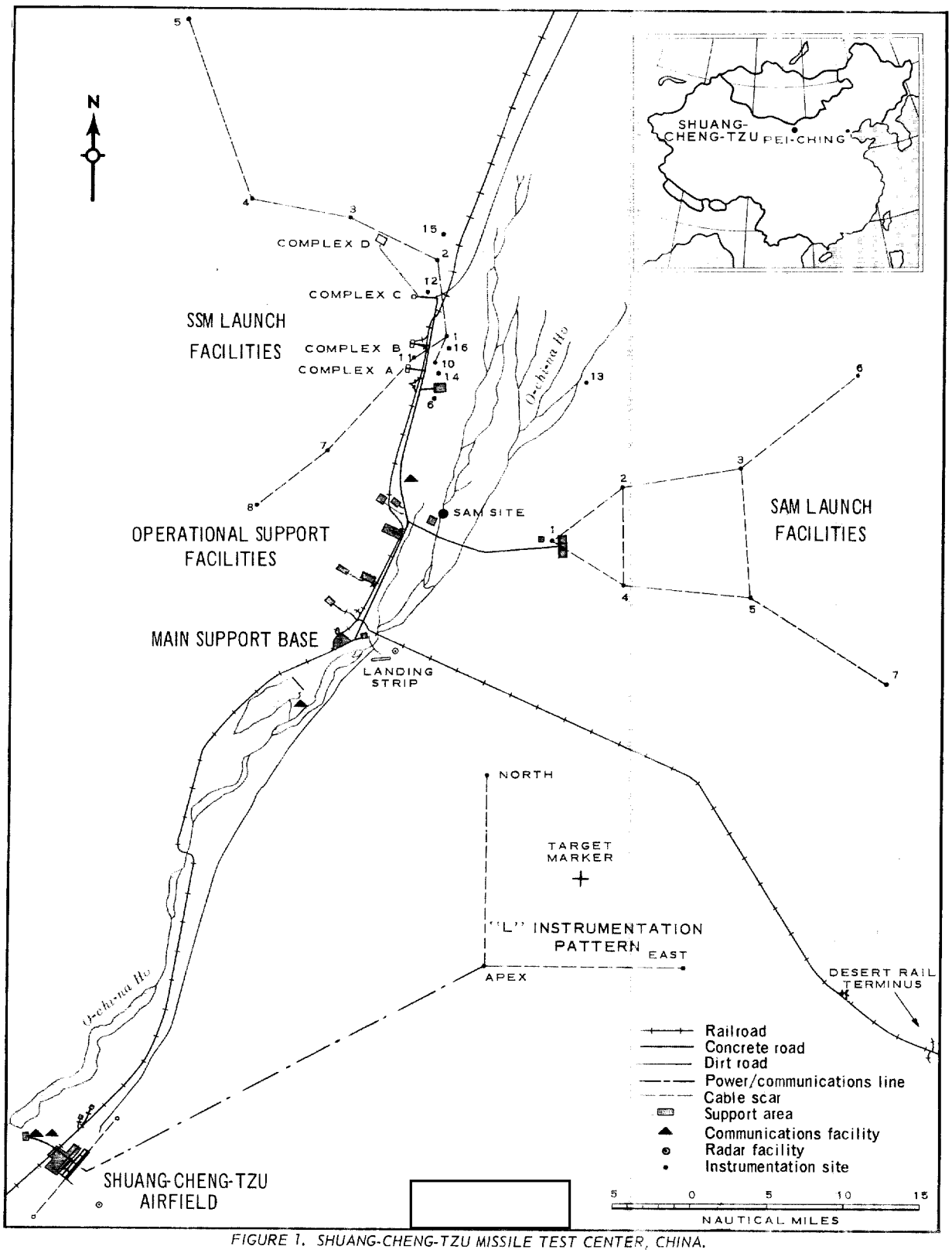

FIGURE 1. SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA.

SHUANG-CHENG-TZU AIRFIELD

This is 1 of a series of reports 1/ 2/ on Shuang-cheng-tzu Missile Test Center, China (Figure 1) updating NPIC/R-1065/64 3/ through [redacted] The most significant changes at Shuang-cheng-tzu Airfield since [redacted] the basis for the previous report, are the placement of netting over a taxiway near the air-to-surface missile (ASM) area, and the construction of a new hangar-type building in the probable air-to-air missile (AAM) area.

Shuang-cheng-tzu Airfield (Figure 2) is located approximately 40 nautical miles (nm) south-southwest of the Main Support Base at 40-23N 99-47E, approximately 3,915 feet above sea level. The airfield and SCTMTC are served by a rail line which branches off the Lan-chou/Wu-lu-mu-chi rail line at Ching-shui at 39-21N 99-01E, approximately 35 nm southeast of Chiu-chuan. The airfield and the rail line provide the primary access to the missile test center.

The facilities at the airfield include an ASM area, a probable AAM area, administration and control facilities, a main POL storage area, an M-type storage area, a motor pool and barracks area, a railroad station, and a housing area. Also associated with the airfield are 2 radar facilities and an "L" instrumentation pattern.

The runway is approximately 13,575 by 270 feet, concrete, and oriented northeast-southwest. It has a parallel taxiway, a parking apron approximately 9,000 feet long, 5 link taxiways, 9 parking stands, 2 run-up aprons, an alert apron, and a firing-in butt.

Inner and outer beacons are at each end of the runway. An early warning radar facility is 1,000 feet southeast of the midpoint of the runway. The facility consists of 1 KNIFE REST B, 1 KNIFE REST C, and 3 support buildings.

Communications facilities are also located at the airfield. The transmitting site is near the railroad station, and the receiving site is near the housing area.

Radar Facilities

Two radar facilities are located near the airfield. One (Figure 3) is located approximately 0.5 nm south of the airfield and the other, Early Warning Radar Facility 2 (Figure 4), is approximately 3.5 nm southeast of the airfield.

The first radar facility, probably part of the air traffic control facilities, was constructed between [redacted] It contains an unoccupied radar mound, a control building, a small support building, a small tower, and 10 small probable hardstands. Six of the probable hardstands face north, 2 face east, and 2 face west. Behind each is a small unidentified object.

Early Warning Radar Facility 2 was present before [redacted] The only changes since that time are that the radar mound is no longer occupied, the small garden plot has been abandoned, and the basketball backboards removed. The 8 structures including probable housing, storage, and support are still present.

Air-to-Surface Missile Area

The ASM area (Figures 5 and 6) is at the southwest end of the runway and is connected to the runway by a 110-foot taxiway and to the parking apron by another taxiway.

The area contains 22 buildings and several small structures. Six of these buildings are new since [redacted] A small storage building near the rail spur which serves the western part of the area was removed between [redacted]

The large hangar-type building (item 6, Figure 6), approximately 200 by 100 by 35 feet high, is probably associated with airborne weapons handling and is similar to a building at the Airborne Weapons Complex at Akhtubinsk/

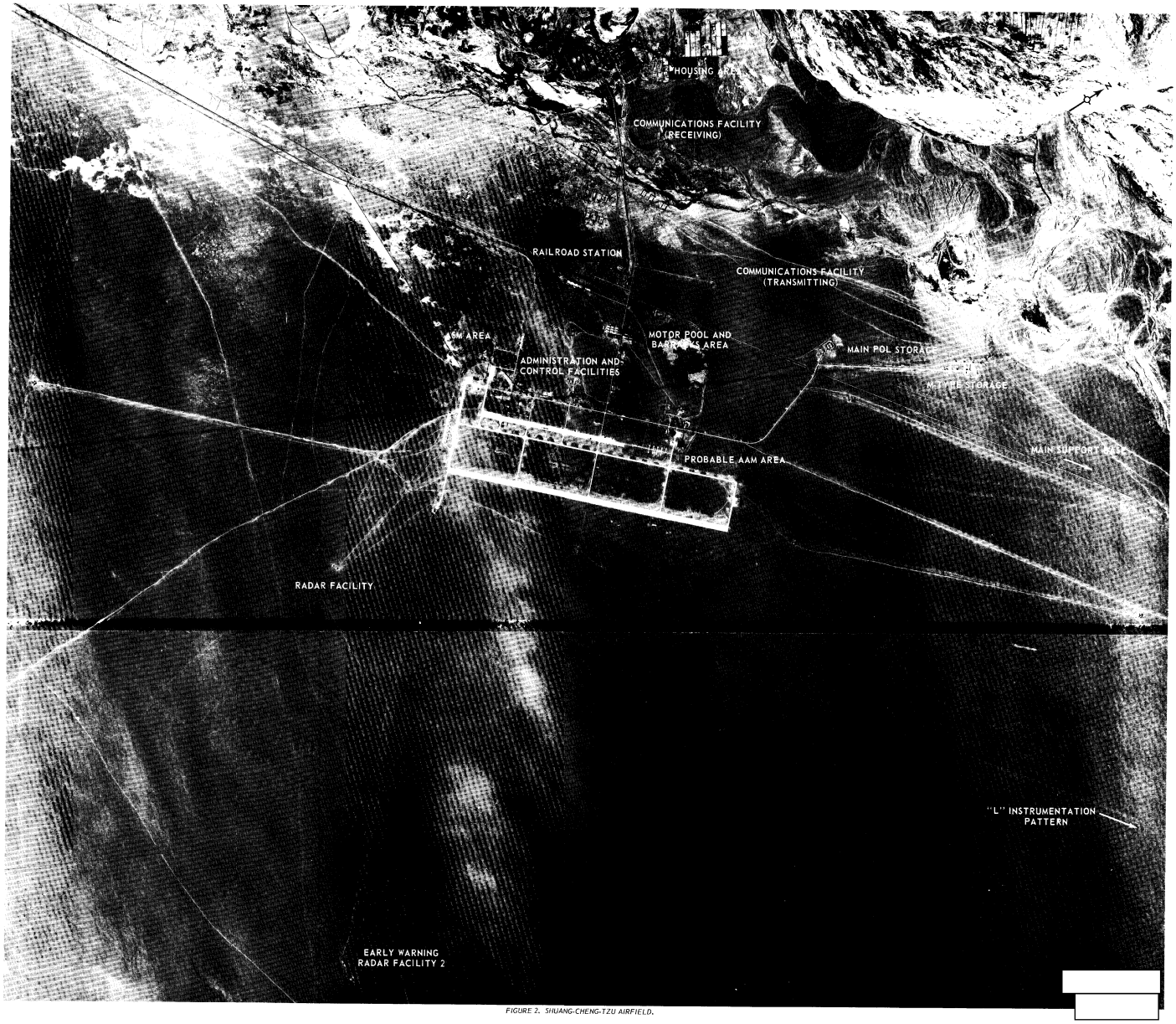

FIGURE 2. SHUANG-CHENG-TZU AIRFIELD.

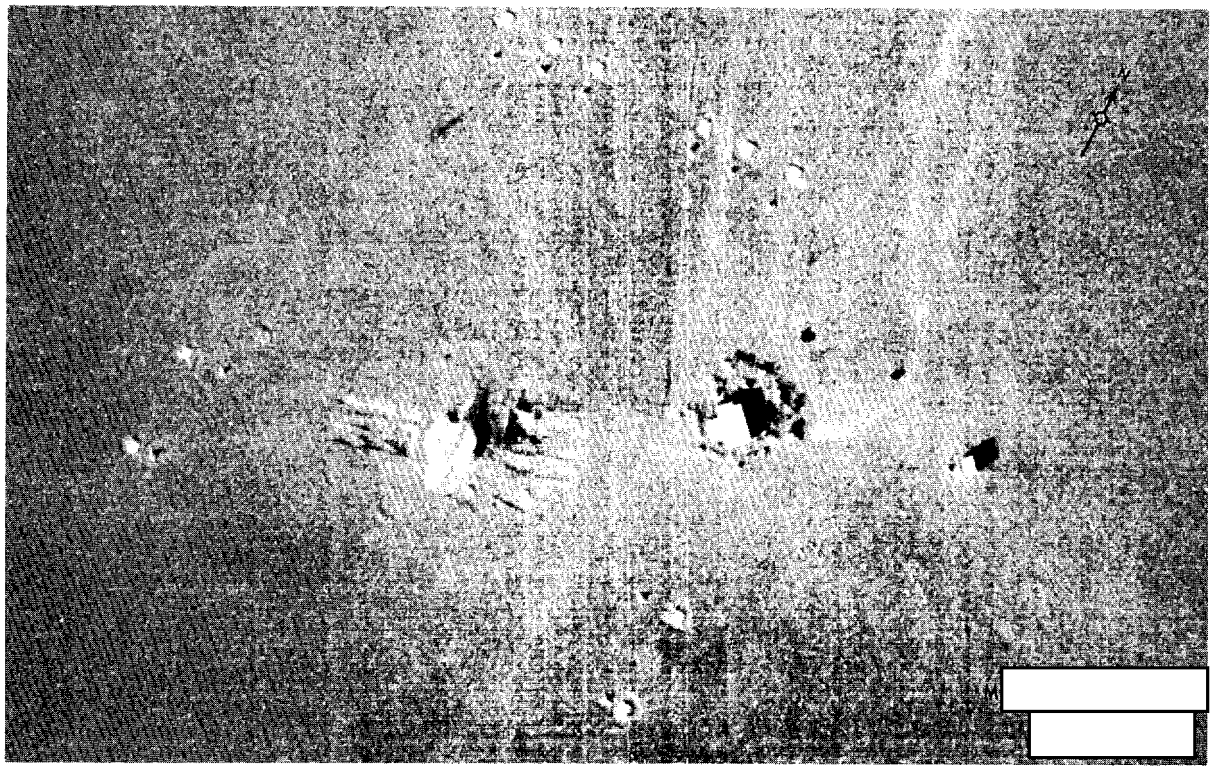

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FIGURE 3. RADAR FACILITY.

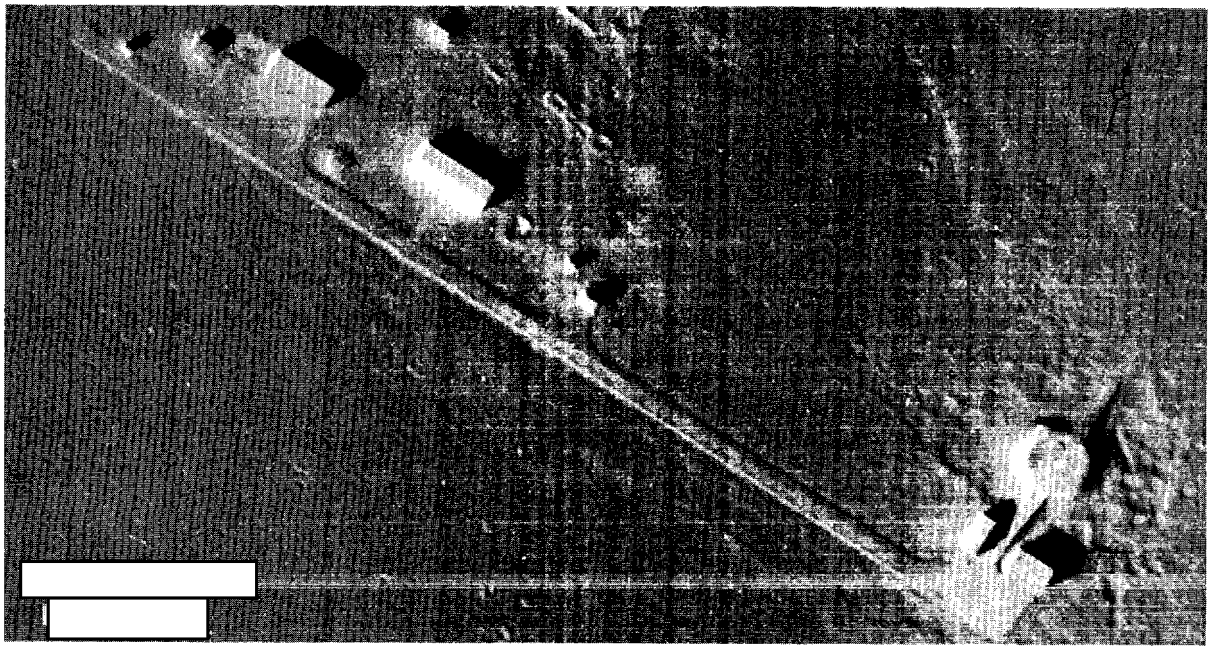

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FIGURE 4. EARLY WARNING RADAR FACILITY 2.

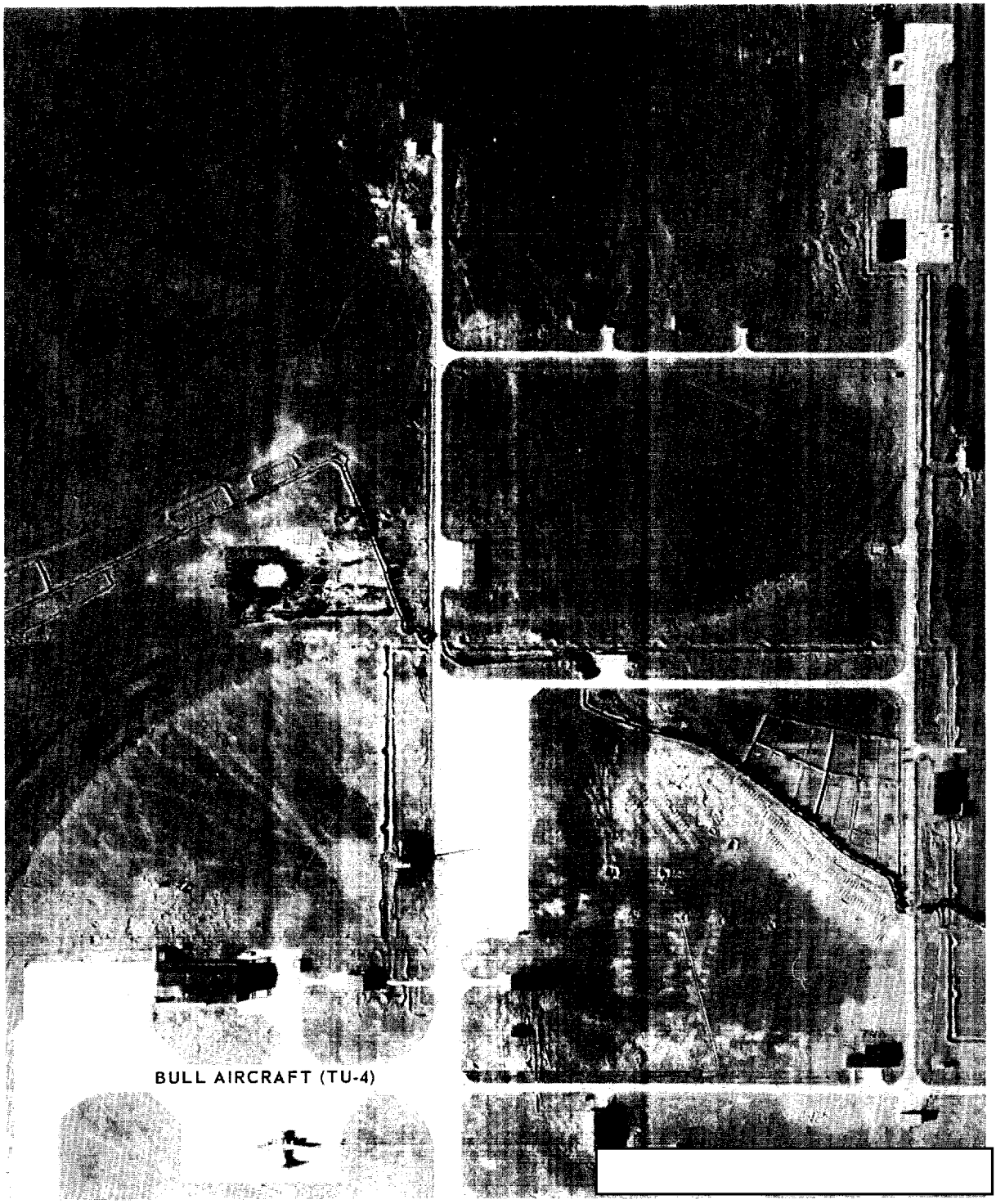

FIGURE 5. ASM AREA.

ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/REMARKS
1	50 x 20	Flat	Storage
2a	45 x 25	Flat	U/I; construction began
b	50 x 40		
3	100 x 35	Gable	Storage
4a	70 x 40	Flat	U/I; construction began
b	25 x 5		
5	65 x 45	Gable and flat	Stepdown
6a	200 x 60	Low pitch gable	Hangar type
b	200 x 20		
c	20 x 20		
7	30 x 25	Gable	Heatplant
8	100 x 35	Gable	Poss drive-through
9	80 x 20	Flat	Storage
10	105 x 30	Flat	Storage
11	60 x 25	Gable	Heatplant
12	25 x 10	Flat	Storage (2)
13	35 x 30 OA	Flat	3 Earth-covered u/i buildings with vents; construction on 2 began between [redacted] westernmost
14	100 x 30	Gable	Storage (2)
15	80 x 20	Flat	Storage (2)
16	35 x 15	Flat	Storage (2)

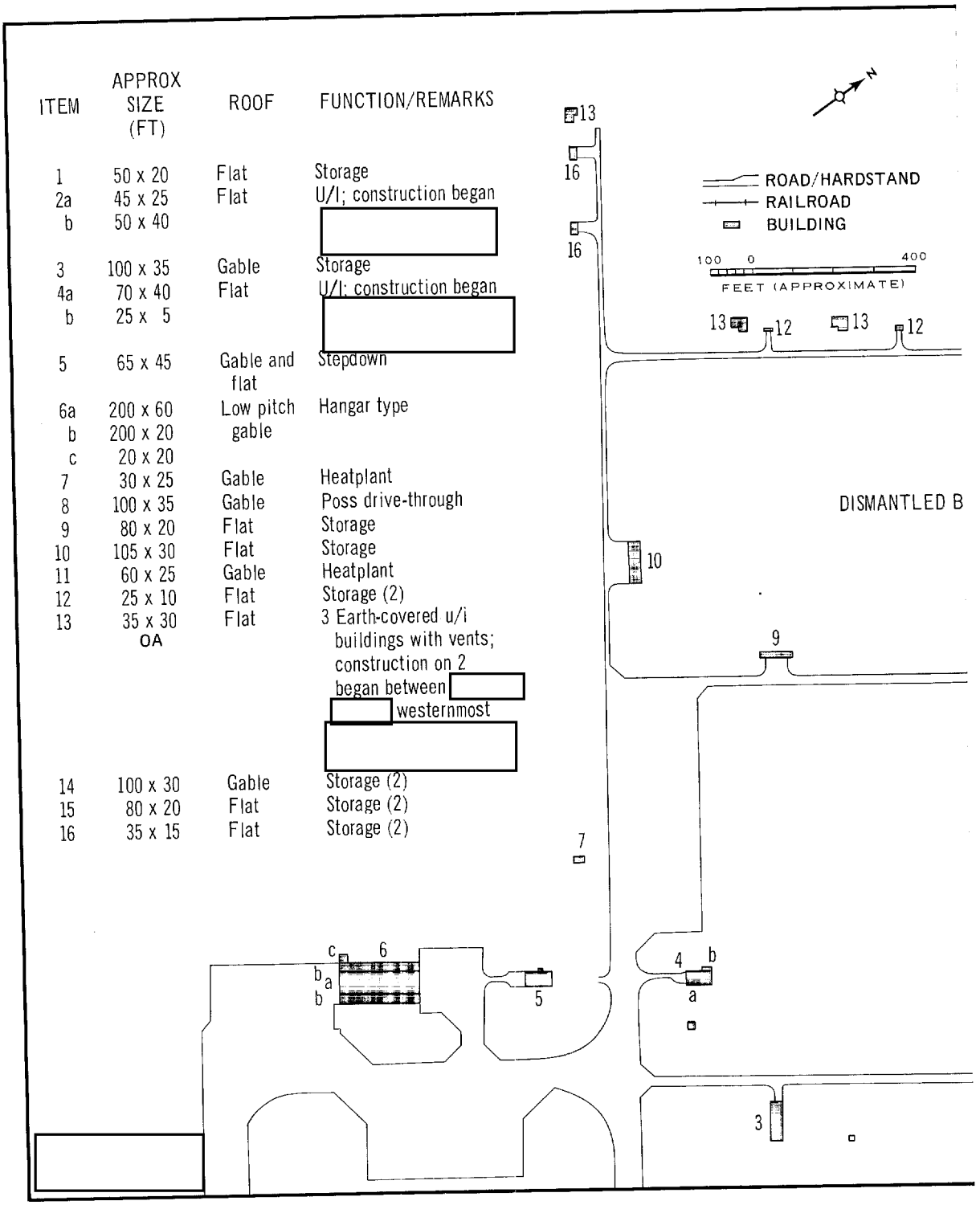

FIGURE 6. ASM AREA.

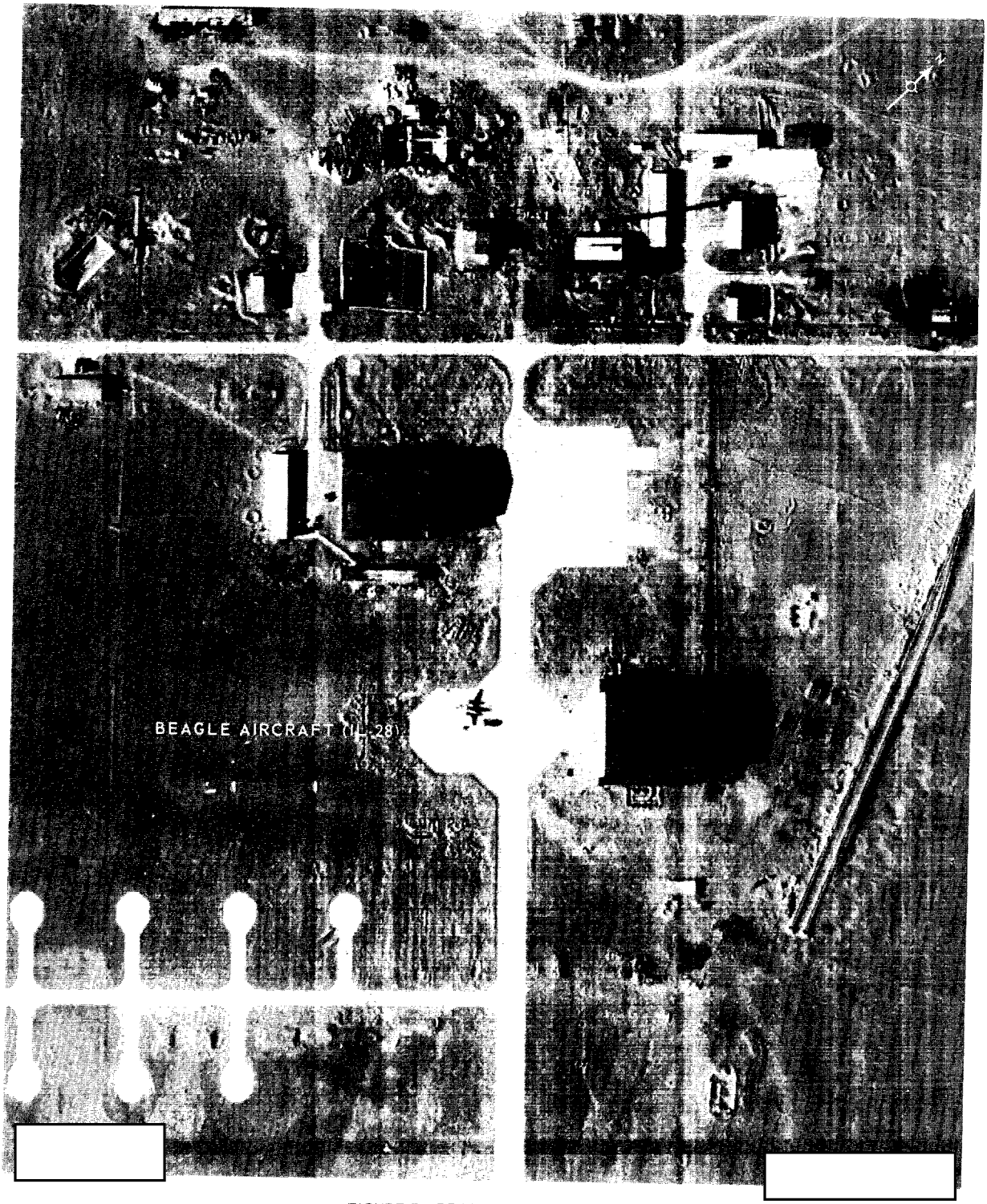

FIGURE 7. PROBABLE AAM AREA.

ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/ REMARKS
1a	165 X 160	Low pitch gable	Hangar-type; construction began
b	170 X 20		
c	170 X 15		
2a	160 X 120	Low pitch gable	Hangar-type
b	170 X 20		
c	170 X 15		
3	145 X 20	Flat	U/I
4	165 X 35	Shed	Storage
5	90 X 45	Gable	Storage
6	65 X 45	Gable	Prob storage; west corner higher
7	15 X 10	Flat	U/I
8	65 X 50	Gable and flat	Partial two-story; U/I
9	85 X 45	Gable	Heatplant; construction began between
10	140 X 35	Shed	Equipment storage shed (2)
11	15 X 10	Flat	U/I
12	50 X 45	Gable	Storage
13	90 X 50	Gable	Prob equipment maintenance
14	40 X 35	Gable	U/I
15	20 X 15	Flat	U/I
16	45 X 25	Gable	Heatplant
17	--		Grease rack

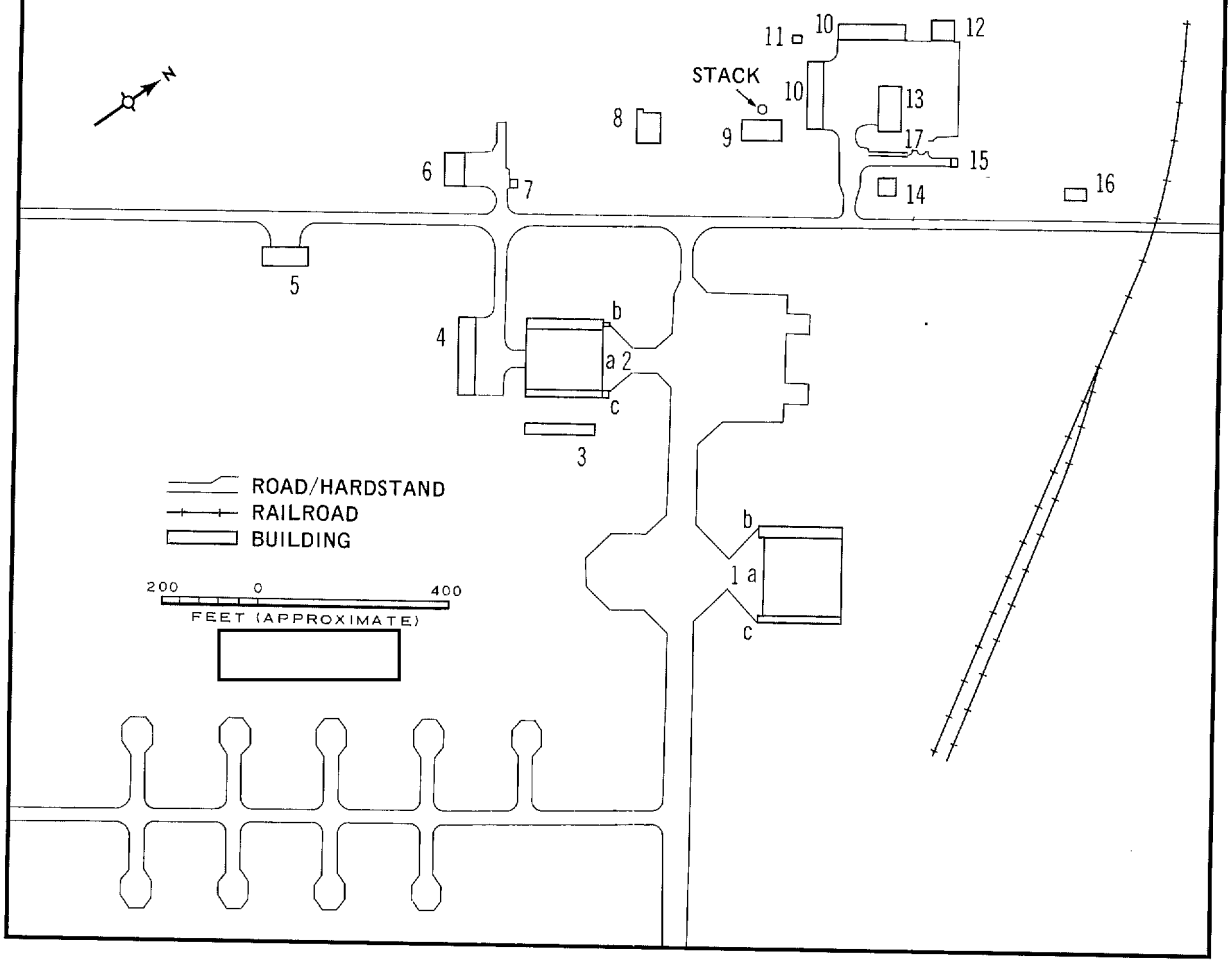

FIGURE 8. PROBABLE AAM AREA.

Vladimirovka Airfield, USSR. Whenever the BULL (TU-4) has been observed at this airfield, it has been on the hardstand next to the hangar-type building.

The next building (item 5) is a stepdown building and is similar to those observed at suspect ASM facilities in China. However, this one is larger.

Item 8 may have a drive-through capability. If so, it and the 4 buildings next to the rail spur would constitute an area similar to AAM facilities in the USSR.

Of the remaining buildings, 12 are storage (including the 4 next to the rail spur), 2 are heatplants, and 5 are unidentified. Four of the storage buildings are on the edge of a large hardstand which is next to the rail spur. An unloading platform is at the eastern end of the hardstand.

Ungarnished netting was placed over a taxiway east-southeast of the ASM area and connecting the parallel taxiway with the parking apron. The netting was emplaced between [redacted] and was still present in [redacted] The netting covers an area approximately 140 by 115 feet and is supported by poles approximately 40 feet high. The BULL has a wingspan of [redacted] and could be accommodated between the poles supporting the netting.

25X1 25X1 25X1

Probable Air-to-Air Missile Area

The probable AAM area (Figures 7 and 8) is located at the northwest end of the runway and is connected to the runway by a taxiway approximately 50 feet wide. Adjacent to the area are 9 hardstands.

The area contains 17 buildings, 2 of them new since [redacted] Construction support buildings on the western edge of the area were being torn down in [redacted]

25X1 25X1

Each of the 2 large hangar-type buildings (one new since [redacted] is approximately 55 feet high and each has a large concrete apron. The newer building is approximately 200 by 160 feet overall and the other approximately 160 by 155 feet overall. The newer of the 2 buildings (item 1, Figure 8) is possibly associated with airborne weapons handling or it may be an aircraft maintenance hangar. The other building (item 2) probably is associated with airborne weapons handling. It is similar, although not identical, to a hangar-type building at the Airborne Weapons Complex at the Akhtubinsk/Vladimirovka Airfield, USSR.

25X1

The motor pool is on the northwest side of the main service road and contains a grease rack, an equipment maintenance building, 2 equipment storage sheds, and a storage building. Two heatplants are nearby.

Between [redacted] a rail spur with 2 terminal sidings was constructed, extending from the main rail line to an area behind the newer hangar-type building. The spur probably was used in support of the construction of that building.

25X1

Administration and Control Facilities

The administration and control facilities (Figure 9) are located along the service road paralleling the runway and between the ASM and probable AAM areas.

The area contains approximately 30 structures, 5 of them new since [redacted] Between [redacted] one building in the POL storage area was removed. The facilities now include a control tower, an administration building, probable and possible barracks, a probable messhall, 2 heatplants, storage, numerous support buildings whose exact function cannot be determined, and a POL storage area with 2 earth-mounded tanks and truck loading/unloading columns.

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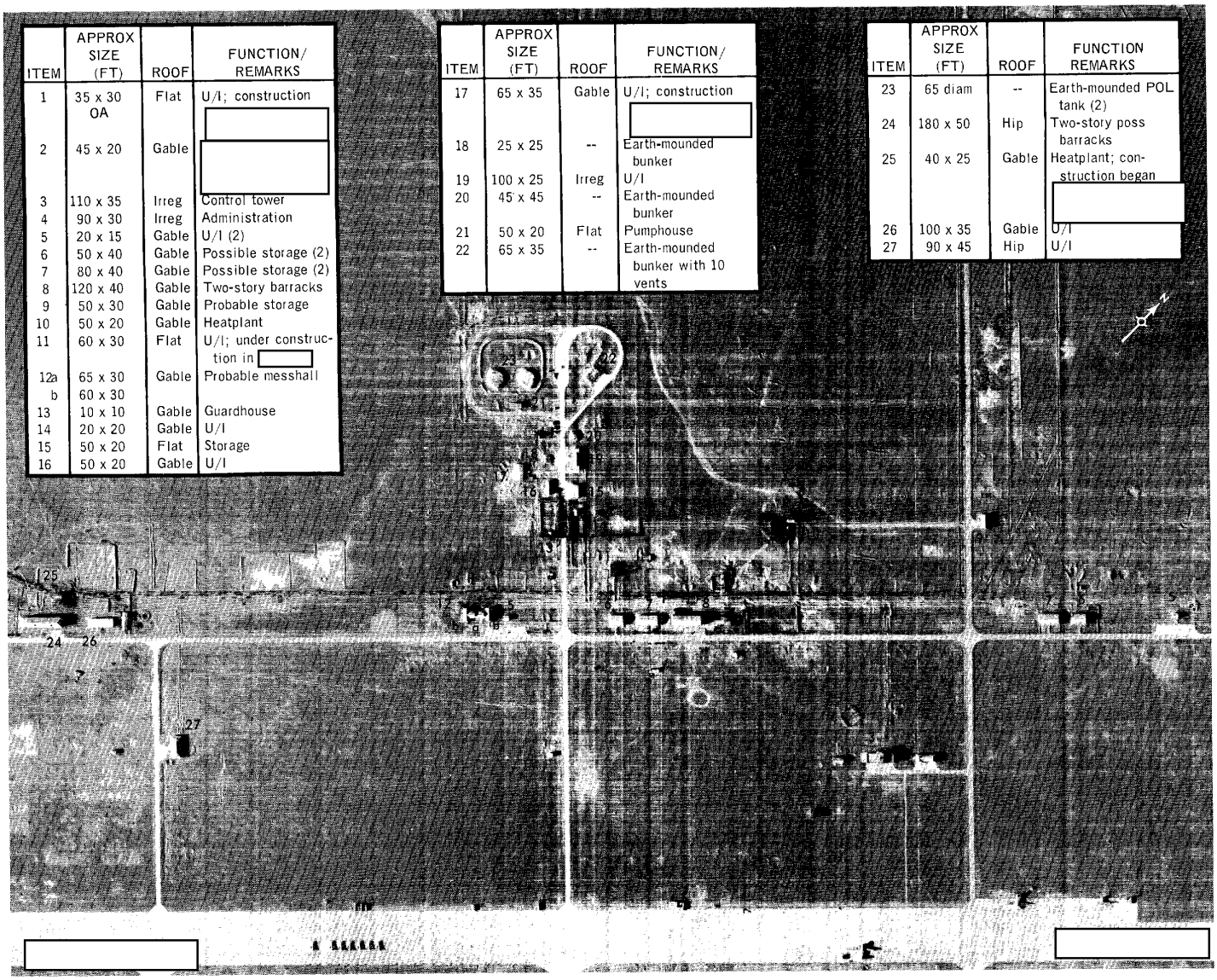

ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/ REMARKS
1	35 x 30 OA	Flat	U/I; construction
2	45 x 20	Gable	
3	110 x 35	Irreg	Control tower
4	90 x 30	Irreg	Administration
5	20 x 15	Gable	U/I (2)
6	50 x 40	Gable	Possible storage (2)
7	80 x 40	Gable	Possible storage (2)
8	120 x 40	Gable	Two-story barracks
9	50 x 30	Gable	Probable storage
10	50 x 20	Gable	Heatplant
11	60 x 30	Flat	U/I; under construction in
12a	65 x 30	Gable	Probable messhall
b	60 x 30		
13	10 x 10	Gable	Guardhouse
14	20 x 20	Gable	U/I
15	50 x 20	Flat	Storage
16	50 x 20	Gable	U/I

ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/ REMARKS
17	65 x 35	Gable	U/I; construction
18	25 x 25	--	Earth-mounded bunker
19	100 x 25	Irreg	U/I
20	45 x 45	--	Earth-mounded bunker
21	50 x 20	Flat	Pumphouse
22	65 x 35	--	Earth-mounded bunker with 10 vents

ITEM	APPROX SIZE (FT)	ROOF	FUNCTION REMARKS
23	65 diam	--	Earth-mounded POL tank (2)
24	180 x 50	Hip	Two-story poss barracks
25	40 x 25	Gable	Heatplant; construction began
26	100 x 35	Gable	U/I
27	90 x 45	Hip	U/I

FIGURE 9. ADMINISTRATION AND CONTROL FACILITIES.

"L" Instrumentation Pattern

The "L" instrumentation pattern (Figure 10) consists of 3 instrumentation sites, forming an isosceles right triangle, and a ground target marker located just inside the midpoint of the hypotenuse.

The pattern is connected to the control tower at the airfield by a power/communication line. The line is buried from the control tower to a point east of the electronics facility containing the KNIFE REST antennas. From there it is carried northeast by transmission poles to the apex site.

The legs of the triangle are approximately 12.5 nm long and are recognizable by probable cable scars and trails. The sites contain standard range instrumentation 20-foot-diameter domes. Three domes are at the apex site and 2 at each of the other 2 sites.

The apex site, approximately 30 nm northeast of the airfield, is the largest of the 3 sites and has shown the greatest change since [redacted] Three buildings were added in [redacted]

[redacted]

At the north site 2 buildings may have been removed between [redacted] No change can be detected at the east site.

The ground target marker (also called air-drop marker) was probably constructed between [redacted] It was enlarged between [redacted] to form a square 400 meters on a side, and a circle was added around the plus. The old corner brackets which formed a rectangle 400 by 250 meters still are visible.

25X1
25X1

On coverage of [redacted] two plus-shaped markers were observed to have been added to the ground target marker, 1 approximately 600 meters north and the other the same distance south of the center of the marker.

Main POL Area

The main POL area (Figure 11), located generally north of the airfield, is served by road from the airfield and by rail from the main rail line. Since [redacted] one building has been constructed and 2 torn down. 25X1

The rail spur branches into 2 sidings as it enters the secured portion of the area. Between the sidings are 8 unloading columns. The 2 probable truck loading points which were located on the widened portion of the loop road opposite the unloading columns no longer appear to be present.

Within the loop road are 4 earth-mounded POL tanks enclosed by a firewall, a smaller earth-mounded tank outside the firewall, a probable pumphouse, 2 earth-covered buildings, and 3 unidentified buildings. The earth-covered buildings may be served by concrete hardstands.

Outside the secured area are a guardhouse, 2 support buildings, and an unidentified building. 25X1
The heatplant which was adjacent to the fence was 25X1
in the process of being torn down in [redacted] 25X1
[redacted] A small structure adjacent to the road 25X1
was removed sometime before [redacted] 25X1
25X1

M-Type Storage Area

The M-type storage area (Figure 12) is located generally north of the airfield and northeast of the main POL area. It is served by road from the airfield and by rail from the main rail line and has shown no change since [redacted] 25X1 25X1 25X1

The area contains 6 storage buildings with lightning arresters, a semiburied tank, and several other structures. There are also 2 rail off-loading ramps and a rail siding approximately 900 feet long. 25X1

Light poles surround the area but there is no evidence of a fence. Guard towers are at each corner of the storage portion of the area and a guardhouse is at the entrance to the area. Also

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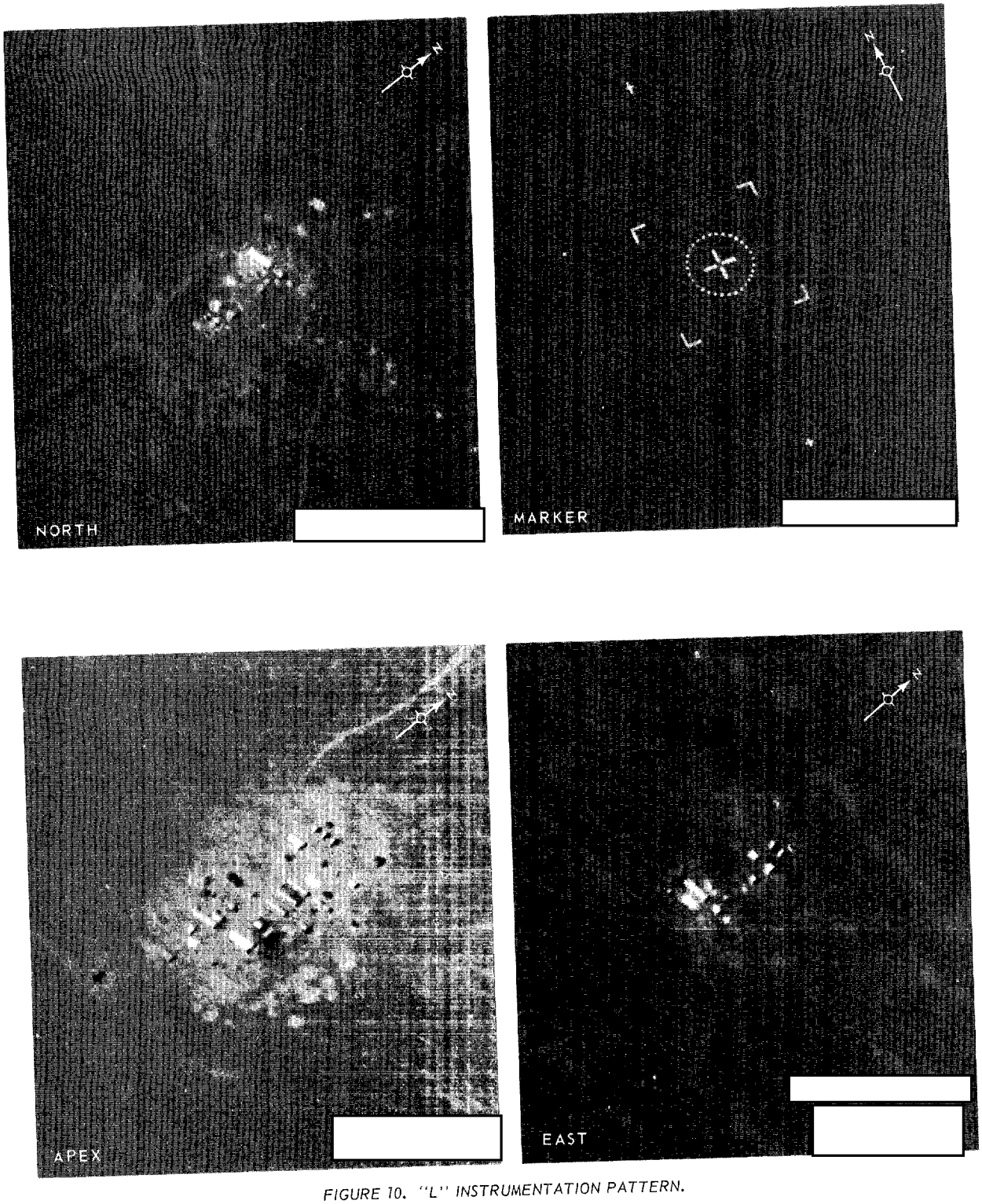

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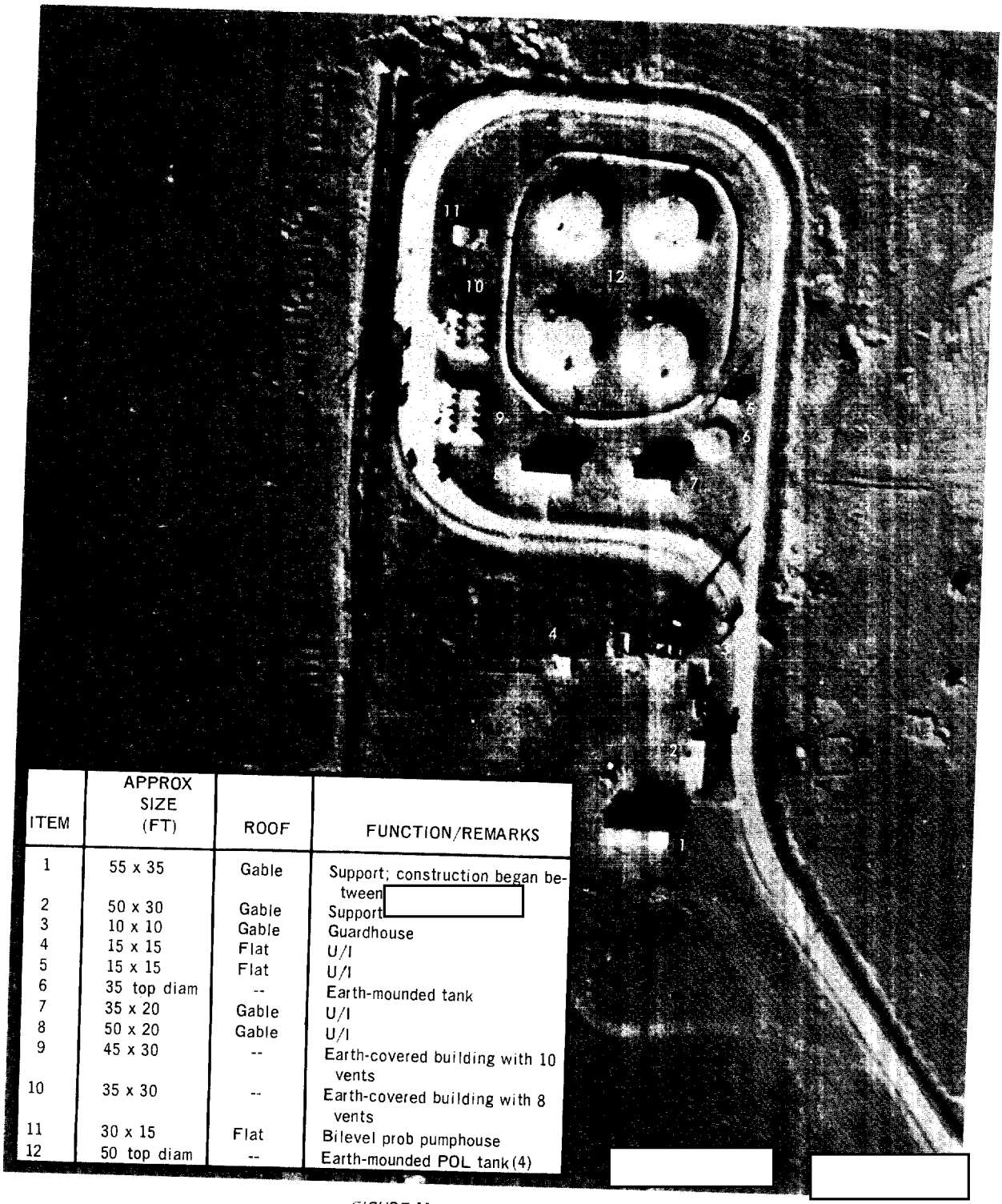
FIGURE 10. "L" INSTRUMENTATION PATTERN.

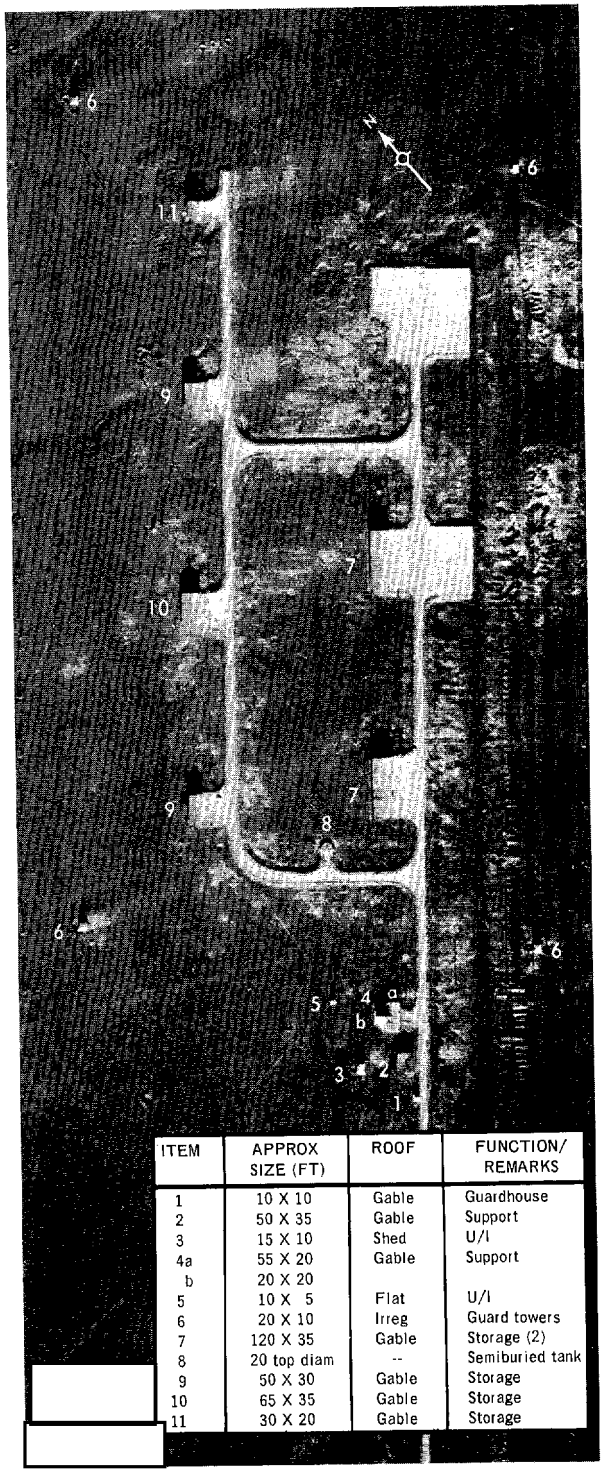


ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/REMARKS
1	55 x 35	Gable	Support; construction began between
2	50 x 30	Gable	Support
3	10 x 10	Gable	Guardhouse
4	15 x 15	Flat	U/I
5	15 x 15	Flat	U/I
6	35 top diam	--	Earth-mounded tank
7	35 x 20	Gable	U/I
8	50 x 20	Gable	U/I
9	45 x 30	--	Earth-covered building with 10 vents
10	35 x 30	--	Earth-covered building with 8 vents
11	30 x 15	Flat	Bilevel prob pumphouse
12	50 top diam	--	Earth-mounded POL tank(4)

25X1

25X1 25X1

FIGURE 11. MAIN POL STORAGE.



ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/ REMARKS
1	10 X 10	Gable	Guardhouse
2	50 X 35	Gable	Support
3	15 X 10	Shed	U/I
4a	55 X 20	Gable	Support
b	20 X 20		
5	10 X 5	Flat	U/I
6	20 X 10	Irreg	Guard towers
7	120 X 35	Gable	Storage (2)
8	20 top diam	--	Semiburied tank
9	50 X 30	Gable	Storage
10	65 X 35	Gable	Storage
11	30 X 20	Gable	Storage

FIGURE 12. M-TYPE STORAGE.

near the entrance are 2 support buildings and 2 unidentified buildings.

Motor Pool and Barracks Area

The motor pool and the barracks area (Figure 13) are between the administration and control facilities and the railroad station along the main road.

Since [redacted] one building has been constructed, a wing added to the messhall, and a T-shaped building adjacent to the main road torn down. The total number of buildings is still approximately 20. Also since [redacted] the number of garden plots has greatly increased. 25X1 25X1

A substation is located in the barracks area and is the only substation at the airfield. A probable BIG BAR radar is at the southwest edge of the motor pool and a water supply facility is south-southwest of the motor pool. The water supply facility contains an earth-covered water tank, a water tower, a pumphouse, and a small unidentified building.

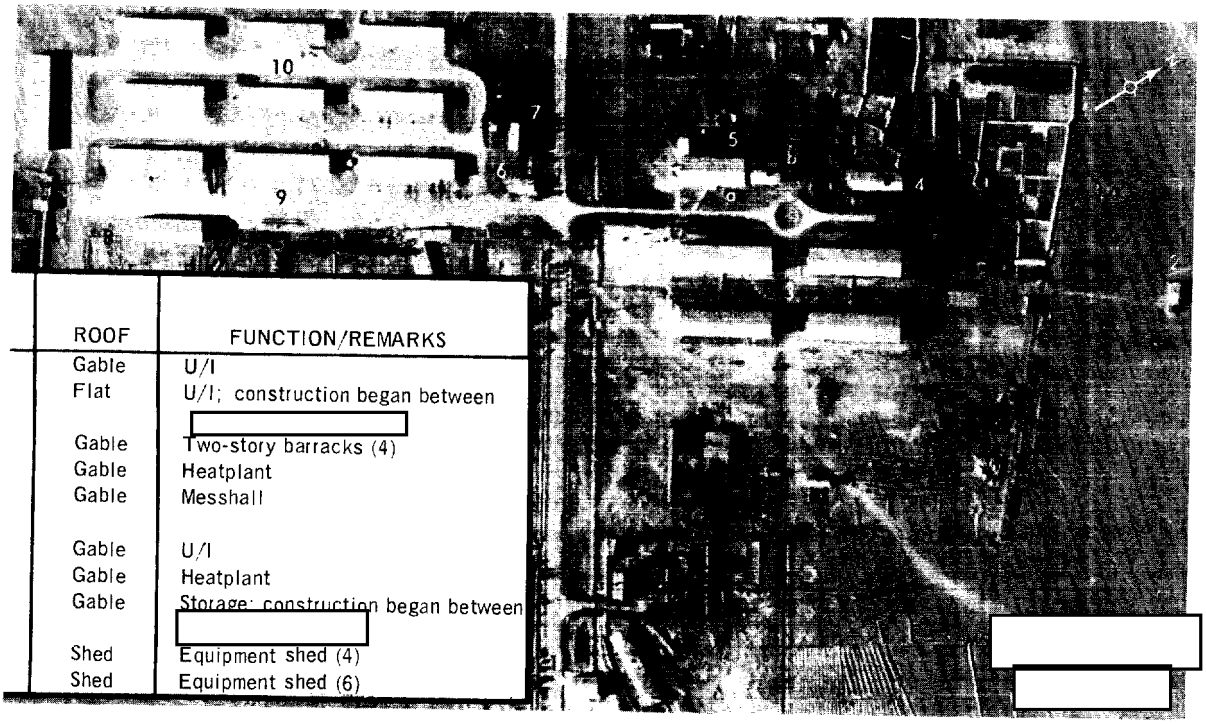
Railroad Station

The railroad station (Figure 14) is located generally west of the airfield and contains loading and unloading facilities (end and side), storage facilities, a heatplant, a station house, a railyard 4 tracks wide, and a rail spur.

The heatplant has been added and the adjacent building has been extended since [redacted] 25X1 An end- loading and - unloading ramp has been added at the end of the spur serving the storage facilities and a probable fence has been constructed around the storage facilities and end ramp. Probable equipment sheds have been added in the western portion of the station and several structures of a temporary nature have been added between the railyard and the spur.

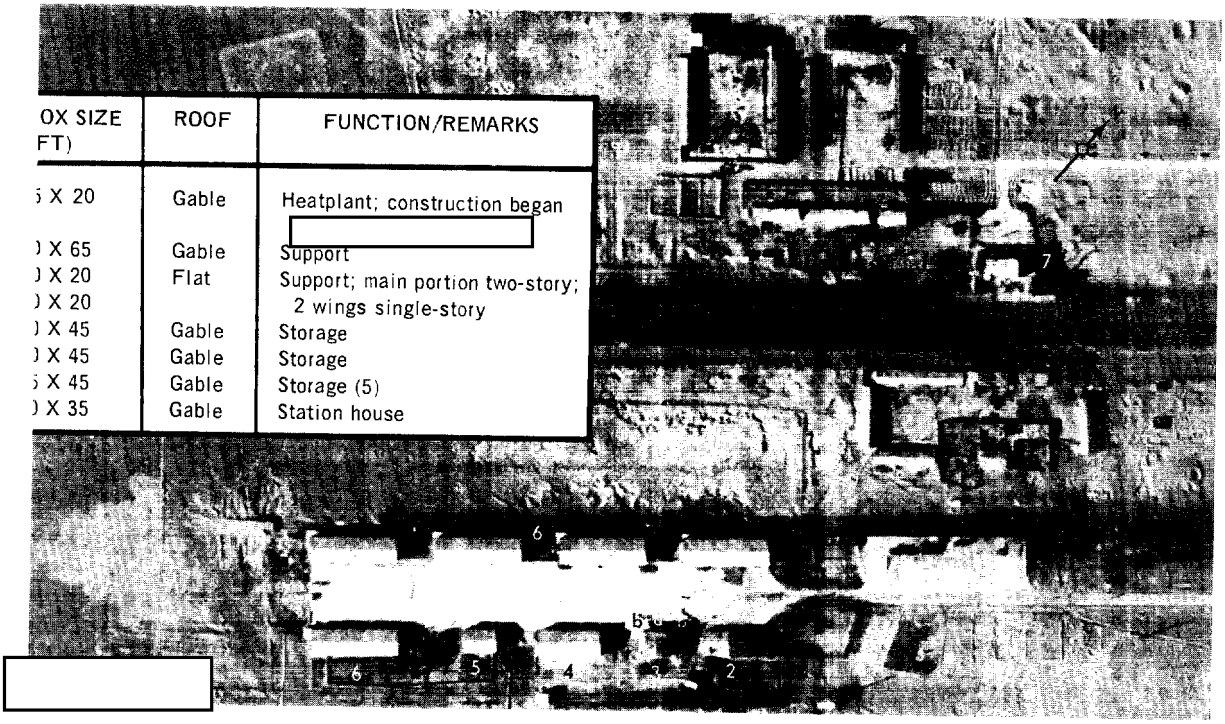
Housing Area

The housing area (Figure 15) is approximately 3.0 nm northwest of the airfield and is served by concrete road from the airfield.



ROOF	FUNCTION/REMARKS
Gable	U/I
Flat	U/I; construction began between
Gable	Two-story barracks (4)
Gable	Heatplant
Gable	Messhall
Gable	U/I
Gable	Heatplant
Gable	Storage; construction began between
Shed	Equipment shed (4)
Shed	Equipment shed (6)

FIGURE 13. MOTOR POOL AND BARRACKS AREA.



OX SIZE FT)	ROOF	FUNCTION/REMARKS
5 X 20	Gable	Heatplant; construction began
) X 65	Gable	Support
) X 20	Flat	Support; main portion two-story; 2 wings single-story
) X 20		
) X 45	Gable	Storage
) X 45	Gable	Storage
5 X 45	Gable	Storage (5)
) X 35	Gable	Station house

FIGURE 14. RAILROAD STATION.

three buildings have been added for a total of approximately 70 buildings. Of these, 37 are barracks and 1 is a possible barracks. The area also contains 7 messhalls, 1 probable messhall, an auditorium, a probable hospital, a motor pool, 2 heatplants, water supply facilities, administration buildings, storage buildings, and unidentified buildings.

There are now garden plots in the area which were not present i Also since that time the road network has increased to a minor degree.

REFERENCES

DOCUMENTS

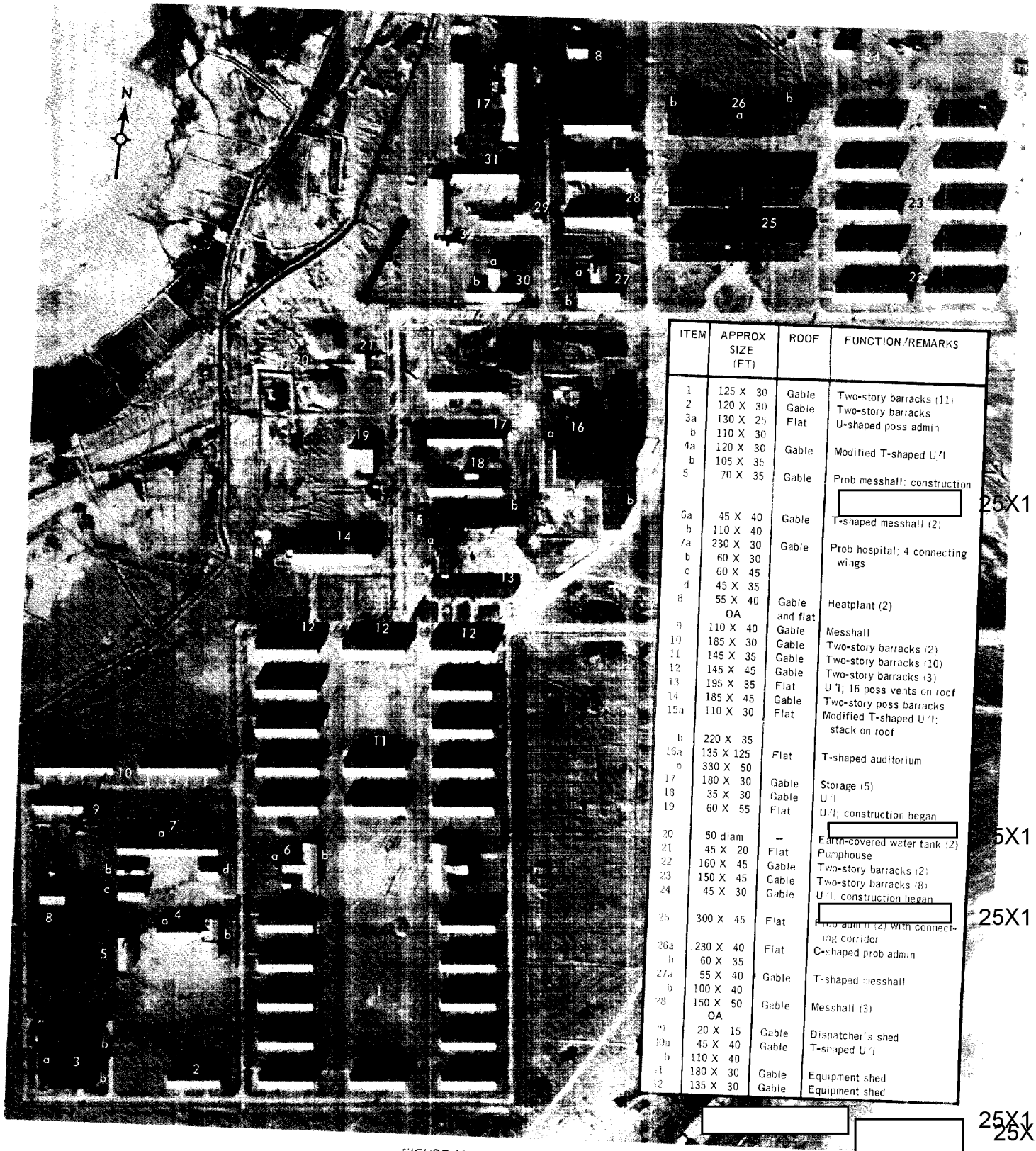
1. NPIC. *SSM Launch Facilities, Shuang-cheng-tzu Missile Test Center, China,* Feb 67 (TOP SECRET
2. NPIC. *Main Support Base, Shuang-cheng-tzu Missile Test Center, China,* Feb 67 (TOP SECRET
3. NPIC. R-1065/64, *Shuang-cheng-tzu Missile Test Center, China,* Jan 64 (SECRET/

REQUIREMENT

GMAIC. 4-67

NPIC PROJECT

11105/67 (partial answer)



ITEM	APPROX SIZE (FT)	ROOF	FUNCTION/REMARKS
1	125 X 30	Gable	Two-story barracks (11)
2	120 X 30	Gable	Two-story barracks
3a	130 X 25	Flat	U-shaped poss admin
b	110 X 30		
4a	120 X 30	Gable	Modified T-shaped U/I
b	105 X 35		
5	70 X 35	Gable	Prob messhall; construction
6a	45 X 40	Gable	T-shaped messhall (2)
b	110 X 40		
7a	230 X 30	Gable	Prob hospital; 4 connecting wings
b	60 X 30		
c	60 X 45		
d	45 X 35		
8	55 X 40 OA	Gable and flat	Heatplant (2)
9	110 X 40	Gable	Messhall
10	185 X 30	Gable	Two-story barracks (2)
11	145 X 35	Gable	Two-story barracks (10)
12	145 X 45	Gable	Two-story barracks (3)
13	195 X 35	Flat	U/I; 16 poss vents on roof
14	185 X 45	Gable	Two-story poss barracks
15a	110 X 30	Flat	Modified T-shaped U/I; stack on roof
b	220 X 35		
16a	135 X 125	Flat	T-shaped auditorium
c	330 X 50		
17	180 X 30	Gable	Storage (5)
18	35 X 30	Gable	U/I
19	60 X 55	Flat	U/I; construction began
20	50 diam	--	Earth-covered water tank (2)
21	45 X 20	Flat	Pumphouse
22	160 X 45	Gable	Two-story barracks (2)
23	150 X 45	Gable	Two-story barracks (8)
24	45 X 30	Gable	U/I; construction began
25	300 X 45	Flat	Prob admin (2) with connecting corridor
26a	230 X 40	Flat	C-shaped prob admin
b	60 X 35		
27a	55 X 40	Gable	T-shaped messhall
b	100 X 40		
28	150 X 50 OA	Gable	Messhall (3)
29	20 X 15	Gable	Dispatcher's shed
30a	45 X 40	Gable	T-shaped U/I
b	110 X 40		
31	180 X 30	Gable	Equipment shed
32	135 X 30	Gable	Equipment shed

FIGURE 15. HOUSING AREA.